



City of Seattle Next Generation Data Center

Work through June 2013

- Current Situation
- Four Strategy Dimensions
- Strategy Recommendations
- Scope

Phase 2 Planning

- High Level Implementation Plan
- Next Steps

Project Steering Committee:

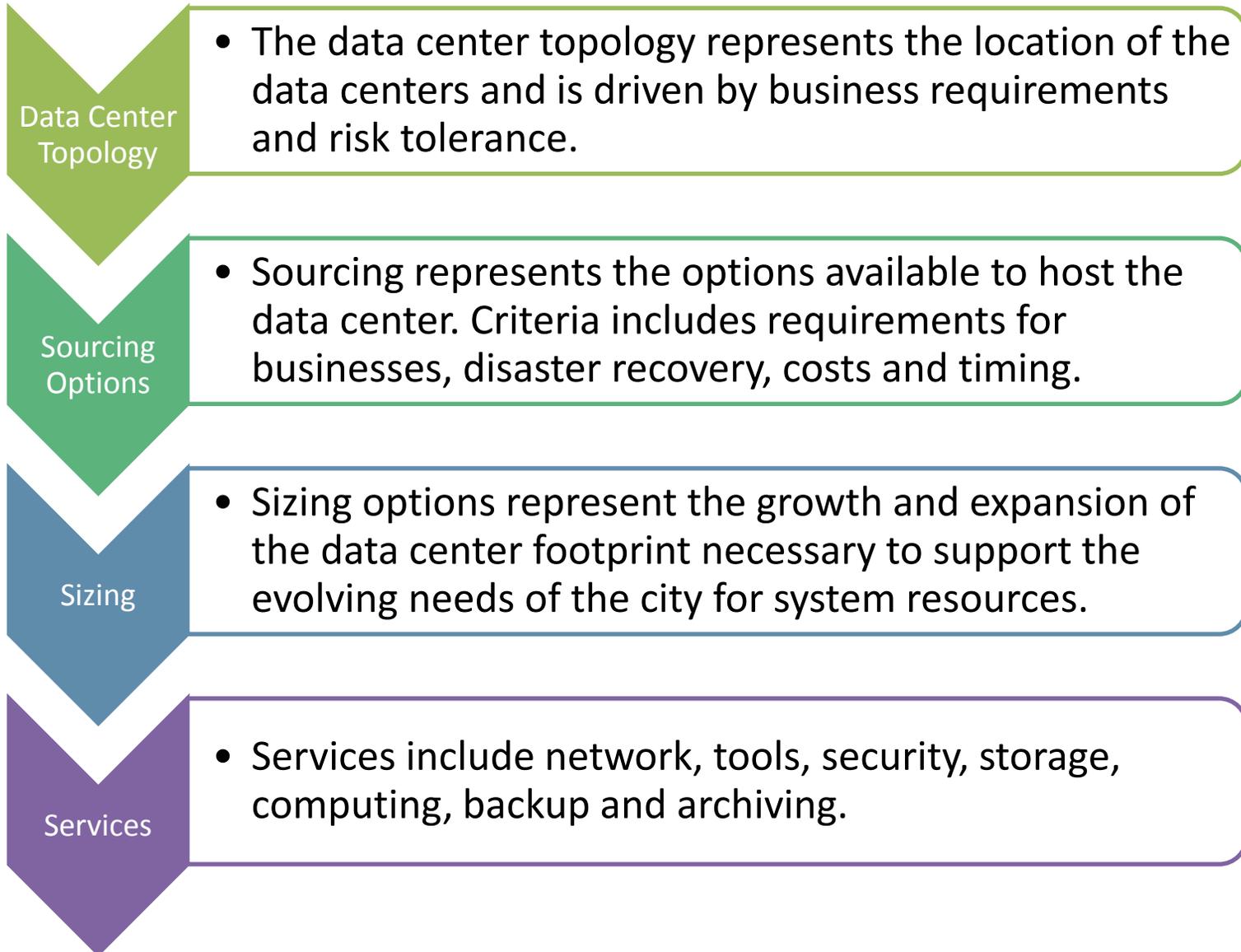
Erin Devoto, DoIT, Executive Sponsor; Jeff Bishop, SCL; Gregory Dean, SFD;
Ray Hoffman, SPU; Fred Podesta, FAS; Dick Reed, SPD; Mary Rutherford, SDOT



- 16 infrastructure locations across all city departments and main data center in Tier 1 Facilities.
- Over 15,000 square feet of technology space.
- 1.4 PB of data on various vendor products.
- Data back up and recovery on various vendor products (servers/storage/tapes).
- 1,671 physical and virtual servers on multiple vendor projects.
- Over 1,300 applications, 98 preliminarily identified as candidates for high level critical recovery.
- Data network infrastructure managed by multiple departments.



Framework - Four Main Dimensions





Consultant Strategy Recommendations

Data Center Topology

- Physically consolidate the City's computing resources into two resilient geographically diverse data centers
- Use secondary data center for dev/test environments and critical systems for disaster recovery. Dev/test will be used for recovery as needed in an emergency.

Sourcing Options

- Co-location model for the sourcing of the data centers

Sizing

- Accelerate virtualization and modernization efforts to reduce footprint and minimize migration costs
- Primary: 3,000 – 6,000 square feet
- Secondary: 2,000 – 4,000 square feet

Services

- Provide service tiers based on application criticality and performance requirements
- Establish a city-wide technology governance model and leverage technology skills across the city
- Leverage the data center migration to absorb the effort of relocating on shared services environment



All City applications and associated technology are included in the long-term scope for the data center strategy; however, some applications will be handled separately from the main data center relocation due to:

- **Regulatory Requirements**
 - Regulation requires specialized operation of the systems not currently feasible in the data center strategy.
 - Utilities - SCADA/Energy Management
- **Proprietary Technology**
 - SFD/SPD – E911/CAD; concurrent project
 - SDOT – Traffic Management System; concurrent



Data Center Strategy – Out of Scope for NGDC but Coordinated Efforts

Non-data center Technology

- Building specific technology that does not reside in a data center.
- e.g. Building voice and data network equipment.

Departmental IT Projects

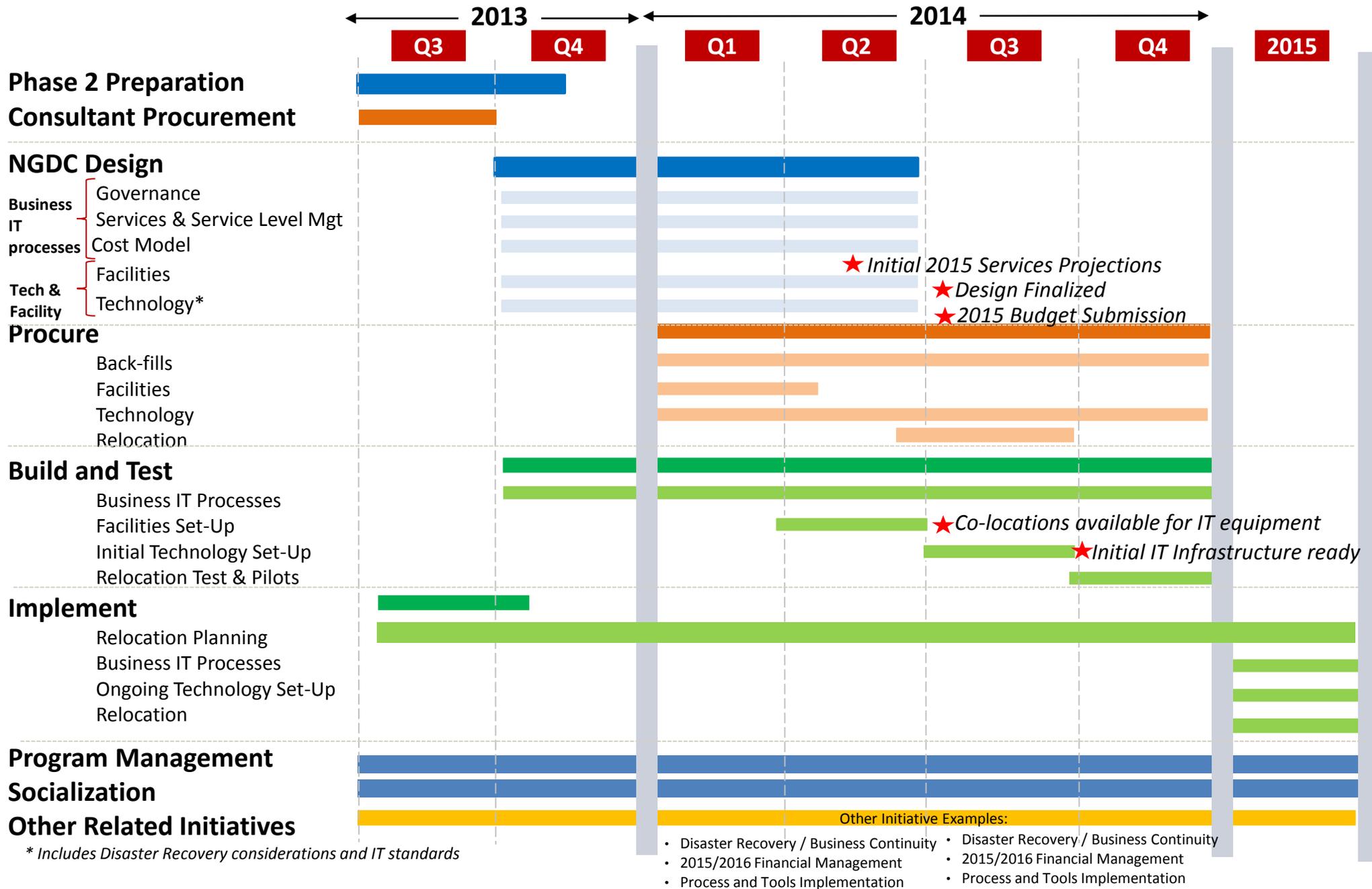
- Coordinated to understand how the projects will impact the NGDC project
- e.g. Customer Care & Billing (SCL), FINMAP/Summit Upgrade (FAS), etc.

FAS Facility Projects

- Coordinated to minimize impacts to each other.
- For example:
 - Power Maintenance at buildings with data centers/server rooms.
 - Facility resiliency projects at buildings with non-data center technology.



High Level Implementation Timeline





Next Steps for 2013: Phase 2 Planning

- Complete NGDC Phase 2 Project Charter
 - Planned completion date: 7/26/2013
- Issue NGDC Phase 2 Consultant RFP
 - Planned completion date: 8/1/2013
- Select NGDC Phase Consultant RFP
 - Planned completion date: 9/6/2013
- Consultant begins work on Phase 2
 - Planned completion date: 10/1/2013